

FCR/PTO-1390 (Modified) U.S. PATENT AND TRADEMARK OFFICE; U.S. DEPARTMENT OF COMMERCE  
(REV. 2-2005)

ATTORNEY'S DOCKET NUMBER

PA0257

**TRANSMITTAL LETTER TO THE UNITED STATES  
DESIGNATED/ELECTED OFFICE (DO/EO/US)  
CONCERNING A SUBMISSION UNDER 35 U.S.C. 371**

U.S. APPLICATION NO. (If known, see 37 CFR 1.5)

10/523,221

INTERNATIONAL APPLICATION NO.  
PCT/GB2003/003180

INTERNATIONAL FILING DATE  
28 July 2003

PRIORITY DATE CLAIMED  
30 July 2002

TITLE OF INVENTION  
PERTURBATION EFFECT RECOGNITION IN A BIOLOGICAL SYSTEM

APPLICANT(S) FOR DO/EO/US  
CONLEY, Edward C. and BRAY, Gareth

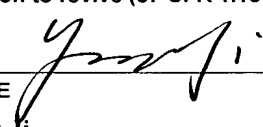
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1. ☐ This is a **FIRST** submission of items concerning a submission under 35 U.S.C. 371.
2. ☒ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a submission under 35 U.S.C. 371.
3. ☐ This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (24) indicated below.
4. ☐ The US has been elected (Article 31).
5. ☐ A copy of the International Application as filed (35 U.S.C. 371 (c)(2))
  - a. ☐ is attached hereto (required only if not communicated by the International Bureau).
  - b. ☐ has been communicated by the International Bureau.
  - c. ☐ is not required, as the application was filed in the United States Receiving Office (RO/US).
6. ☐ An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).
  - a. ☐ is attached hereto.
  - b. ☐ has been previously submitted under 35 U.S.C. 154(d)(4).
7. ☐ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371 (c)(3))
  - a. ☐ are attached hereto (required only if not communicated by the International Bureau).
  - b. ☐ have been communicated by the International Bureau.
  - c. ☐ have not been made; however, the time limit for making such amendments has NOT expired.
  - d. ☐ have not been made and will not be made.
8. ☐ An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).
9. ☒ An oath or declaration of the inventor(s) (35 U.S.C. 371 (c)(4)).
10. ☐ An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371 (c)(5)).
11. ☐ A copy of the International Preliminary Examination Report (PCT/IPEA/409).
12. ☐ A copy of the International Search Report (PCT/ISA/210).

Items 13 to 23 below concern document(s) or information included:

13. ☐ An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
14. ☐ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
15. ☐ A **FIRST** preliminary amendment.
16. ☐ A **SECOND** or **SUBSEQUENT** preliminary amendment.
17. ☐ A substitute specification.
18. ☐ A power of attorney and/or change of address letter.
19. ☐ A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 - 1.825.
20. ☐ A second copy of the published International Application under 35 U.S.C. 154(d)(4).
21. ☐ A second copy of the English language translation of the International Application under 35 U.S.C. 154(d)(4).
22. ☐ Express Mail Label No.
23. ☒ Other items or information:

copy of this transmittal letter for charging purposes, Certificate of Mailing by First Class Mail, copy of the Notification of Missing Requirements as required and a return postcard

U.S. APPLICATION NO (if known, see 37 CFR 1.5) <b>10/523,221</b>		INTERNATIONAL APPLICATION NO. <b>PCT/GB2003/003180</b>		ATTORNEY'S DOCKET NUMBER <b>PA0257</b>		
The following fees are submitted:				<b>CALCULATIONS</b>	<b>PTO USE</b>	
24. <input type="checkbox"/> Basic national fee		\$300		\$	\$0.00	
25. <input type="checkbox"/> Examination fee If International preliminary examination report prepared by USPTO and all claims satisfy provisions of PCT Article 33(1)-(4). All other situations.		\$100 \$200		\$	\$0.00	
26. <input type="checkbox"/> Search fee Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority International Search Report prepared and provided to the Office All other situations.		\$100 \$400 \$500		\$	\$0.00	
<b>TOTAL OF 24, 25 and 26 =</b>				\$	\$0.00	
<input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.						
Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof (round up to a whole)	RATE			
- 100 =	0	/50 =	0	x	\$250.00	
				\$	\$0.00	
Surcharge of \$130.00 for furnishing the oath or declaration later than months from the earliest claimed priority date (37 CFR 1.492(e)).				\$		
<b>CLAIMS</b>	<b>NUMBER FILED</b>	<b>NUMBER EXTRA</b>	<b>RATE</b>			
Total claims	- 20 =	0	x	\$50.00	\$0.00	
Independent claims	- 3 =	0	x	\$200.00	\$0.00	
MULTIPLE DEPENDENT CLAIMS (if applicable) <input type="checkbox"/> +				\$360.00	\$0.00	
<b>TOTAL OF ABOVE CALCULATIONS =</b>				\$	\$0.00	
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2.				\$	\$0.00	
<b>SUBTOTAL =</b>				\$	\$0.00	
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f)).				\$	\$130.00	
<b>TOTAL NATIONAL FEE =</b>				\$	\$130.00	
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40 per property +				\$	\$0.00	
<b>TOTAL FEES ENCLOSED =</b>				\$	\$130.00	
07/27/2008 GFREY1 00000102 502590 10523221 01 FC:161 130.00 DA				<b>Amount to be</b>	\$	
				<b>Amount to be</b>	\$	
<p>a. <input type="checkbox"/> A check in the amount of \$ _____ to cover the above fees is enclosed.</p> <p>b. <input checked="" type="checkbox"/> Please charge my Deposit Account No. <u>502-590</u> in the amount of <u>\$130.00</u> to cover the above fees. A duplicate copy of this sheet is enclosed.</p> <p>c. <input checked="" type="checkbox"/> The Director is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. <u>502-590</u>. A duplicate copy of this sheet is enclosed.</p> <p>d. <input type="checkbox"/> Fees are to be charged to a credit card. <b>WARNING:</b> Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.</p>						
<p><b>NOTE:</b> Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.</p> <p>SEND ALL CORRESPONDENCE TO:</p> <p>Customer No.: 22840 Amersham Biosciences Corp Patent Department 800 Centennial Avenue Piscataway, New Jersey 08855 (732) 457-8423</p>						
				SIGNATURE	 <b>Yonggang Ji</b> NAME <b>53,073</b> REGISTRATION NUMBER	
				NAME		
				REGISTRATION NUMBER		

**CERTIFICATE OF MAILING BY FIRST CLASS MAIL (37 CFR 1.8)**Applicant(s): **Edward C. Conley, et al.**

Docket No.

**PA0257**

Application No.

**10/523,221**

Filing Date

to be assigned

Examiner

to be assigned

Customer No.

**22840**

Group Art Unit

to be assigned

Invention:

**PERTURBATION EFFECT RECOGNITION IN A BIOLOGICAL SYSTEM**

I hereby certify that this trans ltr w/copy, copy of notice, surcharge, declarations & return postcard  
(Identify type of correspondence)

is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope

addressed to "Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450" [37 CFR 1.8(a)] on

July 20, 2005

(Date)

**Melissa Leck**

(Typed or Printed Name of Person Mailing Correspondence)

(Signature of Person Mailing Correspondence)

**Note: Each paper must have its own certificate of mailing.**



## UNITED STATES PATENT AND TRADEMARK OFFICE

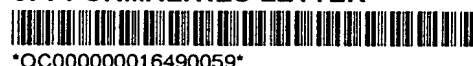
UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

U.S. APPLICATION NUMBER NO.	FIRST NAMED APPLICANT	ATTY. DOCKET NO.
10/523,221	Edward C Conley	PA0257

22840  
AMERSHAM BIOSCIENCES  
PATENT DEPARTMENT  
800 CENTENNIAL AVENUE  
PISCATAWAY, NJ 08855

INTERNATIONAL APPLICATION NO.	
PCT/GB03/03180	
I.A. FILING DATE	PRIORITY DATE
07/28/2003	07/30/2002

**CONFIRMATION NO. 8050**  
**371 FORMALITIES LETTER**



Date Mailed: 07/13/2005

### NOTIFICATION OF MISSING REQUIREMENTS UNDER 35 U.S.C. 371 IN THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)

The following items have been submitted by the applicant or the IB to the United States Patent and Trademark Office as a Designated / Elected Office (37 CFR 1.495).

- Copy of the International Application filed on 01/31/2005
- Copy of the International Search Report filed on 01/31/2005
- Preliminary Amendments filed on 01/31/2005
- Information Disclosure Statements filed on 01/31/2005
- Oath or Declaration filed on 01/31/2005
- Request for Immediate Examination filed on 01/31/2005
- U.S. Basic National Fees filed on 01/31/2005
- Priority Documents filed on 01/31/2005
- Power of Attorney filed on 01/31/2005

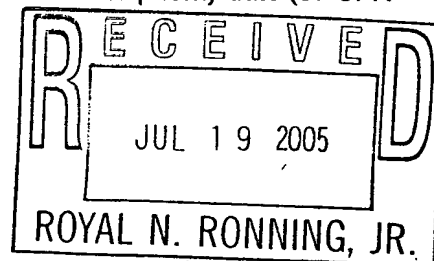
**COPY**

The following items **MUST** be furnished within the period set forth below in order to complete the requirements for acceptance under 35 U.S.C. 371:

- Oath or declaration of the inventors, in compliance with 37 CFR 1.497(a) and (b), identifying the application by the International application number and international filing date. The current oath or declaration does not comply with 37 CFR 1.497(a) and (b) in that it:
  - is not executed in accordance with either 37 CFR 1.66 or 37 CFR 1.68.
- \$130 Surcharge for providing the oath or declaration later than 30 months from the priority date (37 CFR 1.492(e)) is required.

#### SUMMARY OF FEES DUE:

Total additional fees required for this application is **\$130** for a Large Entity:



- **\$130** Late oath or declaration Surcharge.

**ALL OF THE ITEMS SET FORTH ABOVE MUST BE SUBMITTED WITHIN TWO (2) MONTHS FROM THE DATE OF THIS NOTICE OR BY 32 MONTHS FROM THE PRIORITY DATE FOR THE APPLICATION, WHICHEVER IS LATER. FAILURE TO PROPERLY RESPOND WILL RESULT IN ABANDONMENT.**

The time period set above may be extended by filing a petition and fee for extension of time under the provisions of 37 CFR 1.136(a).

Applicant is reminded that any communications to the United States Patent and Trademark Office must be mailed to the address given in the heading and include the U.S. application no. shown above (37 CFR 1.5)

*A copy of this notice **MUST** be returned with the response.*

TERRY M JOHNSON VESSELS

Telephone: (703) 308-9140 EXT 221

**PART 1 - ATTORNEY/APPLICANT COPY**

U.S. APPLICATION NUMBER NO.	INTERNATIONAL APPLICATION NO.	ATTY. DOCKET NO.
10/523,221	PCT/GB03/03180	PA0257

FORM PCT/DO/EO/905 (371 Formalities Notice)

**COPY**